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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/706,983	11/14/2003	Douglas Bryman	98731-000125/US/COA	7496	
30593	7590 06/17/2004		EXAM	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			GAGLIARDI	GAGLIARDI, ALBERT J	
P.O. BOX 891 RESTON, VA			ART UNIT PAPER NUMBER		
RESTON, V	A 20193		2878		
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/706,983	BRYMAN, DOUGLAS				
Office Action Summary	Examiner	Art Unit	RV.			
	Albert J. Gagliardi	2878	•			
Th MAILING DATE of this communication app Period for Reply	ears on th cover sh t with th c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 No.	ovember 2003.					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-45</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-45</u> is/are rejected.						
7) Claim(s) is/are objected to.	r alaction requirement					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on <u>14 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	- · ·		ED 4 404(ct)			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•	•	• • •			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National	Stage			
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>11/03</u>. 	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	O-152)			

DETAILED ACTION.

Claim Objections

1. Claim 29 is objected to because of the following informalities:

The term "the first three-dimensional position" in claim 29 should be changed to -- the first multi-dimensional position -- so as to be consistent with the antecedent "a first multi-dimensional position" as recited in claim 14.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. Claims 14 and 16-21, 23 and 28-30 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: the medium being adapted to emit light. The examiner notes that absent some antecedent limitation (in claim 14) that the medium be adapted to emit light, it is unclear how the plurality of photodetectors (i.e., light detectors) may be adapted to determine a first multidimensional position of the interaction. The examiner further notes that while emission of light could be considered an implied limitation of the of the apparatus, the positive recitation of an adaptation to emit light as recited in dependent claim 15 raises the question of whether of not claim 15 is redundant or not further limiting.

The remaining claims are rejected on the basis of their dependency.

Double Patenting

3. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible

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harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

4. Claims 1-45 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-27 of copending Application No. 10/192,614. Although the conflicting claims are not identical, they are not patentably distinct from each other for the reasons noted below

Regarding claims 1-24, it would have been obvious to a person of ordinary skill in the art to alter the wording of the claims (particularly changing the limitation of three-dimensional to multi-dimensional) so as to generate new claims differing in scope.

Regarding claim 25-45, it would have been obvious to a person of ordinary skill in the art to include specific steps or limitations relating to different species of the invention wherein the multi-dimensional position determination is made on the basis of spatial distribution and/or

arrival times of the light and/or ionization electrons at the respective detecting and/or collecting means so as to generate new claims differing in scope and to more clearly define the invention.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Albert J. Gagliardi whose telephone number is (571) 272-2436. The examiner can normally be reached on Monday thru Friday from 9 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Albert J. Gagliardi Primary Examiner Art Unit 2878